RO 17/50

kV dependent max mA values for exposure times ≤ 100ms in combination with Optimus 50kW

kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]
40	202000	581000	70	242857	650000	**100**	**170000**	**500000**	130	130769	384615
41	209800	603200	71	239436	650000	101	168316	495049	131	129770	381679
42	217600	625400	72	236111	650000	102	166666	490196	132	128787	378787
43	225400	647600	73	232876	650000	103	165048	485436	133	127819	375939
44	233200	650000	74	229729	650000	104	163461	480769	134	126865	373134
45	241000	650000	75	226666	650000	105	161904	476190	135	125925	370370
46	248800	650000	76	223684	650000	106	160377	471698	136	125000	367647
47	256600	650000	77	220779	649350	107	158878	467289	137	124087	364963
48	264400	650000	78	217948	641025	108	157407	462962	138	123188	362318
49	272200	650000	79	215189	632911	109	155963	458715	139	122302	359712
50	280000	650000	80	212500	625000	110	154545	454545	140	121428	357142
51	285818	650000	81	209876	617283	111	153153	450450	141	120567	354609
52	291636	650000	82	207317	609756	112	151785	446428	142	119718	352112
53	297454	650000	83	204819	602409	113	150442	442477	143	118881	349650
54	303272	650000	84	202380	595238	114	149122	438596	144	118055	347222
55	309090	650000	85	200000	588235	115	147826	434782	145	117241	344827
56	303571	650000	86	197674	581395	116	146551	431034	146	116438	342465
57	298245	650000	87	195402	574712	117	145299	427350	147	115646	340136
58	293103	650000	88	193181	568181	118	144067	423728	148	114864	337837
59	288135	650000	89	191011	561797	119	142857	420168	149	114093	335570
60	283333	650000	90	188888	555555	120	141666	416666	150	113333	333333
61	278688	650000	91	186813	549450	121	140495	413223			
	274193	650000	92	184782	543478	122	139344	409836			
	269841	650000	93	182795	537634	123	138211	406504			
	265625	650000	94	180851	531914	124	137096	403225			
	261538	650000	95	178947	526315	125	136000	400000			
	257575	650000	96	177083	520833	126	134920	396825			
	253731	650000	97	175257	515463	127	133858	393700			
	250000	650000	98	173469	510204	128	132812	390625			
	246376	650000	99	171717	505050	129	131782	387596			

These are the default values of the tube data file TUBE_R2.TDL or TUBE_R3.TDL.
Typically there are no changes after adaptation except there are reductions due to the max generator power (Optimus 50kW = 650mA max) or if the filament does not have its full emission anymore (e.g. from shorted filament loops).
The red marked emission current values (at 55kV SF and 44kV LF) are the max emission currents at a kV value from which on the filament current can be reduced to achieve its max load performance.